

ABDELLAH KHALLOUK

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PROFESSIONAL SUMMARY:

- Backend-focused Java Developer with 3+ years of experience building REST APIs, backend services, data-driven modules, and Android-based functionalities across financial, sustainability, and engineering domains.
- Skilled in Java, Spring Boot, Spring Framework, REST/JSON communication, and modular service-layer development with a strong focus on scalability, maintainability, and clean architecture.
- Experienced in MySQL, Oracle SQL Developer, SQL Workbench, and SQLite for schema design, CRUD operations, indexing, performance tuning, and integrating relational databases with backend logic.
- Proficient with IntelliJ IDEA, Android Studio, Git/GitHub, Postman, Maven, Gradle, and Docker Desktop, supporting stable development environments and CI/CD workflow alignment.
- Strong debugging and testing background using JUnit, Mockito, Postman, log tracing, and structured exception analysis to ensure reliable and high-quality backend functionality.
- Effective collaborator in Agile/Scrum environments with experience in sprint planning, requirement refinement, documentation, and delivering iterative enhancements for production systems.
- Well-rounded technical foundation demonstrated through contributions to financial-data platforms at QED Investors, sustainability and Android solutions at ClearKarma, enterprise backend systems at Attrecto, and engineering automation tasks at ZALAGH.

EDUCATION:

- Master of Science – Mechatronical Engineering | Óbuda University | 09/2019 – 07/2022
- Bachelor of Science – Mechatronics and Embedded Systems | Faculty of Science Dhar El Mahraz | Fez, Morocco | 09/2014 – 06/2018

TECHNICAL SKILLS:

Programming Languages: Java, JavaScript, Python, C++, HTML, CSS, XML, Bash

Backend Technologies: Spring Boot, Spring Framework, REST APIs, JSON, Maven, Gradle, Uniface

Frontend & UI: Android XML UI, React, AngularJS, HTML5, CSS3

Databases: MySQL, Oracle SQL Developer, SQL Workbench, SQLite

Tools & IDEs: IntelliJ IDEA, Android Studio, Visual Studio Code, Postman, Git, GitHub, Docker Desktop, CATIA V5, CATIA V6, MATLAB Simulink, LabVIEW

Testing & DevOps Skills: JUnit, Mockito, API Testing, Docker Basics, Linux CLI, CI/CD Fundamentals

Architecture & Workflow: Object-Oriented Programming, Modular Design, Microservice Basics, Agile/Scrum

WORK EXPERIENCE:

Backend Java Developer

Dec 2024 – Present

QED Investors

Alexandria, VA

- Develop scalable backend services using Java and Spring Boot, implementing structured business logic, reusable service layers, and reliable workflow automation for internal financial data pipelines.
- Build and enhance REST APIs that support secure data transfer, validation workflows, structured JSON responses, and error-handling standards across distributed internal systems.
- Work on MySQL and Oracle SQL Developer to design queries, refine database interactions, create indexing strategies, and support high-accuracy data retrieval.
- Refactor existing backend modules by restructuring classes, improving dependency management, and applying clean coding patterns to enhance long-term maintainability.
- Perform comprehensive API testing using Postman along with unit-level validation using JUnit to ensure system stability, accuracy of endpoints, and regression prevention.

- Support Docker-based local environment setups to standardize runtime behavior, simplify onboarding, and reduce configuration inconsistencies across machines.
- Participate in Agile sprints by analyzing requirements, breaking down tasks, reviewing peer code, and contributing to continuous team improvement.
- Document backend workflows, API rules, database interactions, and integration details to ensure clarity for developers, analysts, and stakeholders.

Environment:

Java, Spring Boot, Spring Framework, REST, JSON/XML, MySQL, Oracle SQL Developer, IntelliJ IDEA, Postman, Git/GitHub, Maven, Gradle, Docker Desktop, Linux basics, JUnit, CI/CD fundamentals, Agile/Scrum

Software Developer

Jul 2023 – Oct 2024

ClearKarma

Vienna, Austria

Built and enhanced Android application components using Java/XML, contributing to mobile workflow logic, UI-driven feature handling, and smooth navigation across traceability screens.

- Developed backend logic for processing environmental data, transforming API responses, validating JSON payloads, and structuring business rules for traceability features.
- Integrated third-party APIs related to sustainability, product life cycle metrics, and carbon-footprint calculations with proper response parsing and error handling.
- Collaborated with MySQL databases, designing queries, adjusting table structures, tuning indexes, and supporting data-driven operations within the application.
- Conducted cross-platform debugging in Android Studio, IntelliJ, and Visual Studio Code to resolve UI inconsistencies, backend issues, and integration failures.
- Collaborated with engineering teams to refine feature designs, optimize user flows, and support prototype iterations in an Agile development cycle.
- Participated in code reviews to maintain consistent coding standards, ensure maintainability, and identify improvement opportunities.
- Authored documentation covering API mappings, environment setup instructions, workflow diagrams, and technical onboarding guides for new contributors.
- Assisted in UI improvements by optimizing view rendering, adjusting layout responsiveness, and enhancing overall user experience.
- Supported blockchain-backed traceability features by handling API integrations and ensuring accurate presentation of environmental metrics.

Environment: Java, Android Studio, XML, MySQL, SQL Workbench, JavaScript, Python, REST, JSON, Uniface, Git/GitHub, IntelliJ IDEA, Visual Studio Code, Docker Desktop (basic), React (entry), AngularJS (entry), HTML, CSS, Agile/Scrum

Junior Java Developer

Oct 2021 – Feb 2023

Attrecto Next Tech Digital Solutions

Győr, Hungary

- Assisted in implementing backend services using Java and Spring components, contributing to feature development through modular logic, reusable components, and clearly defined service operations.
- Built REST API endpoints with structured request validation, response formatting, exception handling, and standardized payload rules for internal applications.
- Worked with MySQL and Oracle SQL Developer to perform CRUD operations, improve data integrity, adjust schemas, and build query logic for backend functionality.
- Participated in environment configuration tasks including application property setup, build execution support, and aligning modules for smooth deployments.
- Debugged backend modules by reviewing logs, analyzing stack traces, and identifying logic defects for faster issue resolution and system stabilization.
- Used IntelliJ IDEA to write, test, refactor, and document backend code, ensuring clean structure and clear method responsibilities.
- Applied Git best practices to manage branches, commit granular changes, resolve merge conflicts, and maintain a clean project history.
- Participated in Agile ceremonies, clarifying technical requirements, estimating effort, and collaborating with teammates to deliver backend tasks on schedule.

- Documented API behavior, endpoint rules, validation logic, and workflows to support internal understanding and reduce onboarding time for other developers.

Environment: Java, Spring Framework (basic), REST APIs, Postman, Oracle SQL Developer, MySQL, IntelliJ IDEA, Git/GitHub, Maven, Gradle (basic), JSON/XML, Docker Desktop (beginner), Linux CLI (basic), Agile/Scrum

Assistant Concept Engineer – Internship

Jan 2018 – May 2018

ZALAGH PLANCHER FES

Casablanca, Morocco

- Analyzed system input/output behavior for industrial automation equipment, mapping operational dependencies and mechanical requirements.
- Prepared detailed mnemonic tables outlining operational logic, sequential tasks, and equipment response behavior.
- Designed Structured Function Charts (SFC) using STEP7 to represent automated industrial processes and sequential workflows.
- Supported troubleshooting tasks and efficiency improvements by assisting with electrical diagnostics and automation performance evaluation.

Environment: STEP7, SFC, CATIA V5, CATIA V6, MATLAB Simulink, LabVIEW

CERTIFICATIONS:

Java Developer – Green Fox Academy (09/2022 – 06/2023)

PERSONAL PROJECTS:

Peer-to-Peer Chat Application

- Built a direct socket-based messaging system enabling real-time peer-to-peer communication with secure IP/port authentication, message streaming, and dynamic UI interaction.
- Implemented advanced features including file sharing, synchronized UI themes, Caesar Cipher encryption, voice-command input, and timestamped chat-history management.
- Designed a reliable client-side architecture with robust error handling, connection recovery logic, and persistent conversation logs for seamless user experience.

Ball-Tracking Robot — Raspberry Pi 3B

- Developed an autonomous tracking robot using Raspberry Pi and OpenCV to detect, isolate, and follow a moving ball through real-time computer-vision processing.
- Engineered directional movement logic that adjusts motor control based on object coordinates, enabling responsive navigation and motion-based decision making.
- Built a functional surveillance prototype capable of continuous region monitoring and automated response behaviors while maintaining optimized performance on limited hardware.

LANGUAGES:

- Arabic – Native
- English – Professional
- French – Professional
- German – Elementary